

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1600RXA

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

***** Welcome to STN International *****

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS	3	JUN 06	KOREAPAT updated with 41,000 documents
NEWS	4	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	5	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	6	JUN 25	CA/CAPLUS and USPAT databases updated with IPC reclassification data
NEWS	7	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS	8	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS	9	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS	10	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS	11	JUL 28	CA/CAPLUS patent coverage enhanced
NEWS	12	JUL 28	EPFULL enhanced with additional legal status information from the epoline Register
NEWS	13	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS	14	JUL 28	STN Viewer performance improved
NEWS	15	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS	16	AUG 13	CA/CAPLUS enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS	17	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	18	AUG 15	CAPLUS currency for Korean patents enhanced
NEWS	19	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information
NEWS	20	SEP 18	Support for STN Express, Versions 6.01 and earlier, to be discontinued
NEWS	21	SEP 25	CA/CAPLUS current-awareness alert options enhanced to accommodate supplemental CAS indexing of exemplified prophetic substances
NEWS	22	SEP 26	WPIDS, WPINDEX, and WPIX coverage of Chinese and Korean patents enhanced
NEWS	23	SEP 29	IFICLS enhanced with new super search field
NEWS	24	SEP 29	EMBASE and EMBAL enhanced with new search and display fields
NEWS	25	SEP 30	CAS patent coverage enhanced to include exemplified prophetic substances identified in new Japanese-language patents
NEWS	26	OCT 07	EPFULL enhanced with full implementation of EPC2000
NEWS	27	OCT 07	Multiple databases enhanced for more flexible patent number searching

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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***** STN Columbus *****

FILE 'HOME' ENTERED AT 08:03:15 ON 20 OCT 2008

=> fil reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.42	0.42

FILE 'REGISTRY' ENTERED AT 08:04:28 ON 20 OCT 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 17 OCT 2008 HIGHEST RN 1062752-24-2
DICTIONARY FILE UPDATES: 17 OCT 2008 HIGHEST RN 1062752-24-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>
Uploading C:\Program Files\Stnexp\Queries\QUERIES\105384521.str



```

chain nodes :
10 11 12 13 14 15 16 17
ring nodes :
1 2 3 4 5 6
ring/chain nodes :
9
chain bonds :
3-9 6-10 10-11 11-12 12-13 12-17 13-14 14-15 15-16
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
1-2 1-6 2-3 3-4 3-9 4-5 5-6 6-10 10-11 11-12 12-13 12-17 13-14 14-15
15-16

```

G1:C,N

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Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 9:CLASS 10:CLASS 11:CLASS
12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS

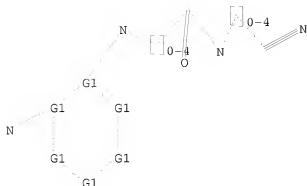
```

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 C,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 08:04:50 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 5038 TO ITERATE

39.7% PROCESSED 2000 ITERATIONS

1 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 96504 TO 105016

PROJECTED ANSWERS: 1 TO 145

L2 1 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 08:04:54 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 101953 TO ITERATE

100.0% PROCESSED 101953 ITERATIONS

11 ANSWERS

SEARCH TIME: 00.00.02

L3 11 SEA SSS FUL L1

=> s l3 and caplus/lc

59346897 CAPLUS/LC

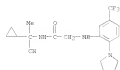
L4 1 L3 AND CAPLUS/LC

=> s l3 not l4

L5 10 L3 NOT L4

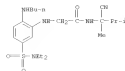
=> d l5 1-10

15 ANWEX 1 OF 10 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1043119-89-6 REGISTRY
 ED Entered STN: 21 Aug 2008
 CN Acetanamide, N-[1-cyano-1-cyclopropylethyl]-2-[[2-(1-pyrrolidanyl)-5-(1,1-difluoroethyl)phenyl]amino]- (CA INDEX NAME)
 MF C19 H21 F2 N4 O
 SR Chemical Library
 Supplier: StrongSynthesis
 LC STN Files: CREDCATS



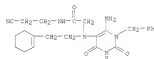
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15 ANWEX 2 OF 10 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1015321-14-0 REGISTRY
 ED Entered STN: 17 Apr 2008
 CN Acetanamide, 2-[[2-(butylamino)-5-[diethylamino]sulfonylphenyl]amino]-N-[1-cyano-1,2-dimethylpropyl]- (CA INDEX NAME)
 MF C22 H27 N5 O3 S
 SR Chemical Library
 Supplier: Ambinter
 LC STN Files: CREDCATS



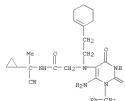
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15 ANWEX 3 OF 10 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1011230-38-8 REGISTRY
 ED Entered STN: 01 Apr 2008
 CN Acetanamide, 2-[[1-amino-1,2,3,4-tetrahydro-2,4-dioxo-1-(phenylethyl)-5-pyrimidinyl][2-(1-cyclohexen-1-yl)ethyl]amino]-N-[2-cyanoethyl]- (CA INDEX NAME)
 MF C24 H20 N6 O3
 SR Chemical Library
 Supplier: Ambinter
 LC STN Files: CREDCATS



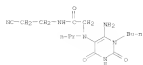
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15 ANWEX 4 OF 10 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1011230-26-4 REGISTRY
 ED Entered STN: 01 Apr 2008
 CN Acetanamide, 2-[[18-amino-1,7,3,4-tetrahydro-2,4-dioxo-1-(phenylethyl)-5-pyrimidinyl][2-(1-cyclohexen-1-yl)ethyl]amino]-N-[1-cyano-1-cyclopropylethyl]- (CA INDEX NAME)
 MF C27 H24 N6 O3
 SR Chemical Library
 Supplier: Ambinter
 LC STN Files: CREDCATS



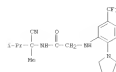
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANWEX 5 OF 10 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1011123-42-7 REGISTRY
 ED Entered STN: 01 Apr 2008
 CN Acetamide, 2-[[6-amino-1-butyl-1,2,3,4-tetrahydro-2,4-dioxo-5-pyrimidinyl]propylamino]-N-(2-cyanoethyl)- (CA INDEX NAME)
 MF C19 H26 N6 O3
 SR Chemical library
 Supplier: Ambinter
 LC STN Files: CHEMCATS



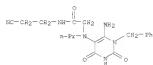
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANWEX 6 OF 10 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1011162-92-7 REGISTRY
 ED Entered STN: 01 Mar 2008
 CN Acetamide, N-(1-cyano-1,2-dimethylpropyl)-2-[[2-(1-pyrrolidinyl)-5-(trifluoromethyl)phenyl]amino]- (CA INDEX NAME)
 MF C19 H25 F3 N4 O
 SR Chemical library
 Supplier: Ambinter
 LC STN Files: CHEMCATS



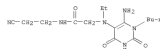
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANWEX 7 OF 10 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1011112-14-3 REGISTRY
 ED Entered STN: 31 Mar 2008
 CN Acetamide, 2-[[[6-amino-1,2,3,4-tetrahydro-2,4-dioxo-1-(phenylmethyl)-5-pyrimidinyl]propylamino]-N-(2-cyanoethyl)- (CA INDEX NAME)
 MF C21 H24 N6 O3
 SR Chemical library
 Supplier: Ambinter
 LC STN Files: CHEMCATS



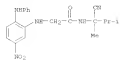
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANWEX 8 OF 10 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1010681-26-1 REGISTRY
 ED Entered STN: 28 Mar 2008
 CN Acetamide, 2-[[[6-amino-1-butyl-1,2,3,4-tetrahydro-2,4-dioxo-5-pyrimidinyl]ethylamino]-N-(2-cyanoethyl)- (CA INDEX NAME)
 MF C15 H24 N6 O3
 SR Chemical library
 Supplier: Ambinter
 LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 NUMBER 9 OF 10 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 94461-34-7 REGISTRY
 ED Entered STN: 01 Mar 2003
 CN Acetanilide, N-(1-cyano-1,2-dimethylpropyl)-2-[[5-nitro-2-
 (phenylamino)phenyl]amino]- (CA INDEX NAME)
 MF C15 H17 N3 O2
 SS Chemical Library
 Supplier: Aurora Fine Chemicals
 LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 NUMBER 10 OF 10 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 500294-33-7 REGISTRY
 ED Entered STN: 14 Mar 2003
 CN Urea, N-cyano-N'-(2-nitrophenyl)- (CA INDEX NAME)
 OTHER NAMES:
 CN NCC N6342
 MF C5 H5 N3 O2
 SS Chemical Library



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

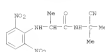
16 ANNEX 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STM
 ACCESSION NUMBER: 1969;437798 CAPLUS
 DOCUMENT NUMBER: 7127798
 ORIGINAL REFERENCE NO.: 7127798, 69564
 TITLE: Selection of a candidate herbicide, a study of structure-activity effects in a series of amino acid derivatives
 AUTHOR(S): Yano, T.
 CORPORATE SOURCE: Woodstock Agri. Res. Centre, Sittlingbourne, UK
 SOURCE: Proc. Brit. Weed Contr. Conf., WCH (1969), Volume 2, 659-67, Nat. Crop Prot. Comm., Broom's Barn, Engl. COMM: WEEDMAP

DOCUMENT TYPE: Conference
 LANGUAGE: English
 AB A group of herbicidal compounds have been developed from N-(phenyl)alanine, a known growth-regulating chemical. Highly specific requirements for activity were encountered in the series ANNECOI in which HENDOCOL represents an amino acid. Maximal effect was observed in the D-form of 2-(4-methyl-2,6-dinitroanilino)-6-methylpropionamide. The active herbicides were more toxic to weeds than to seedling plants, in which they induced stunted and chlorotic. They did not act as uncouplers of oxidative phosphorylation or inhibit the Hill reaction. The mode of activity is unclear, but they may interfere with peptide synthesis.

IT 1978:24-
 RI: AOS (Agricultural use); RAC (Biological activity or effector, except adverse); RBU (Biological study, unclassified); RDL (Biological study); USES (Uses)
 (herbicidal activity of)

RI 1978:24-5 (24527)
 CH Propionamide, N-(1-oxano-1-methyl-2-(2,6-dinitroanilino)-) (R1)
 CA

INDEX NAME:

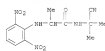


16 ANNEX 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)
 127-130°. IV (10 g.) was heated 15 hrs. at 120° with 50 cc. 33 wt.-%. A soln. of H₂SO₄ in EtOH in a closed tube and the reaction mixt. was cooled, filtered hot, and allowed to cool to give VII. I (2 =

X3 = Cl, X3 = X4 = X5 = H, R = Me, n = 0, R1 = H, R2 = Me, n. 168-3° (lit.). Similarly prepd. I are given in Table 2.

IT 1978:24-19
 RI: SPB (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RI 1978:24-5 CAPLUS
 CH Propionamide, N-(1-oxano-1-methyl-2-(2,6-dinitroanilino)-) (R1)
 CA

INDEX NAME:



16 ANNEX 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STM
 ACCESSION NUMBER: 1969;467079 CAPLUS
 DOCUMENT NUMBER: 7167079
 ORIGINAL REFERENCE NO.: 69:125154, 125184
 TITLE: Herbicidal aminoalkanolamines
 PATENT ASSIGNOR(S): Shell International Research Maatschappij; N. V.
 SOURCE: Math. Appl., 41 pp. COMM: HAZCOM
 DOCUMENT TYPE: Patent
 LANGUAGE: Dutch
 FAMILY ACC. NUM. COUNTRY: 1
 PRIORITY INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6707890		19671211	NL 1967-7890	19670407
DE 1643357			DE	
FR 1525715			FR	
GB 1122845			GB	
US 3834589		19720111	US	19690503
DE 1774811		19770512	DE	19710215
PRIORITY APPL. INFO.: GR			GR	19670502

CI For diagram(s), see printed CA issue.

AB The title compounds of the general formula I, where the symbols have the tabulated values, were prepared either by treating the corresponding chlorobenzene with the corresponding amino acid in EtOH in the presence of

NaHCO₃ at 70-150°, refluxing the formed acid in EtOH with thionyl chloride (II), and treating the formed acid chloride with the corresponding amine in EtOH at a temperature between -20° and +20°, or by treating the corresponding amine with the corresponding H₂CN(CO₂CH₃) at 80-150°, and treating the formed ester with the corresponding amine in EtOH at 100-150°. Thus, a mixture of 1-chloro-2,4-dinitrobenzene R10, R11-amine R84, and NaHCO₃

R40 g. was stirred and refluxed 18 hrs. in 8 l. 95% EtOH and the mixture diluted with 4 l. water, filtered, distilled in vacuo while adding 4 l. water to remove EtOH, cooled by adding 2 l. ice, acidified with concentrated HCl, and stirred to give 954 2-(2,6-dinitroanilino)propionic acid (III), m. 137-3°. To a solution of 490 g. III in 2.5 l. EtOH 370 g. II was added while stirring and the mixture stirred and refluxed 12 hrs., filtered, and distilled to remove EtOH and excess II. To a solution of the residual oil in 2.5 l. EtOH, a solution of 160 g. HClMe in 1 l. CH₂Cl₂ was added while

stirring at 0-5°, the mixture filtered, the filtrate evaporated, and the residue stirred with 1 l. tech. denatured alc. to give 614 I (X1 = X2 = HCl, X3 = X4 = X5 = H, R = Me, n = 0, R1 = H, R2 = Me) m. 148-3°.

Similarly prepared I are given in Table 1, page 625. A mixture of 2,3-dichloroaniline 324 and ethyl 2-bromopropionate 18:1 g. was heated 5 hrs. at 100°, water added to the hot melt, the organic phase extracted with Et₂O, the extract evaporated, and the residue fractionally distilled in vacuo

to give 7 g. ethyl 2-(2,5-dichloroanilino)propionate (IV), m. 90.9

=> fil reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	11.38	216.69
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.60	-1.60

FILE 'REGISTRY' ENTERED AT 08:07:23 ON 20 OCT 2008
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 17 OCT 2008 HIGHEST RN 1062752-24-2
 DICTIONARY FILE UPDATES: 17 OCT 2008 HIGHEST RN 1062752-24-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

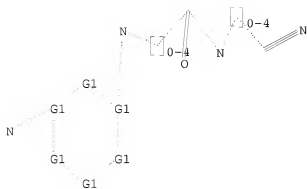
Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
 predicted properties as well as tags indicating availability of



L7

STR



G1 C,N

Structure attributes must be viewed using STN Express query preparation.

=> s l7

SAMPLE SEARCH INITIATED 08:08:00 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 5038 TO ITERATE

39.7% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

2 ANSWERS



FULL SUBSET SCREEN SEARCH COMPLETED - 30 TO ITERATE

100.0% PROCESSED 30 ITERATIONS
SEARCH TIME: 00.00.01

30 ANSWERS

L11 30 SEA SUB=L9 SSS FUL L10

=> s 19 not 112

L12 NOT FOUND

The L-number entered could not be found. To see the definition
of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).

=> s 19 not 111

L12 46 L9 NOT L11

=> s 112 and caplus/lc

59346897 CAPLUS/LC

L13 37 L12 AND CAPLUS/LC

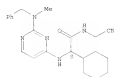
=> s 112 not 113

L14 9 L12 NOT L13

=> d 114 1-9

114 ANSWER 1 OF 9 REGISTRY COPYRIGHT 2008 ACS on STM
 RN 1018118-11-8 REGISTRY
 ED Entered STM: 15 Jun 2008
 CN INDEX NAME NOT YET ASSIGNED
 FS STEREOCENTRE
 MF C12 R12 R1 C
 SS Other Sources
 Database: ChemSpider (ChenDoo, Inc.)

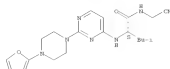
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PDB' FORMAT

114 ANSWER 2 OF 9 REGISTRY COPYRIGHT 2008 ACS on STM
 RN 1017994-97-3 REGISTRY
 ED Entered STM: 13 Jun 2008
 CN Pentanamide, N-(cyanomethyl)-2-[[2-[4-(2-furanyl)-3-piperazinyl]-6-pyrimidinyl]amino]-4-methyl-, (2S)- (CA INDEX NAME)
 FS STEREOCENTRE
 MF C10 R17 R1 C2
 SS Other Sources
 Database: ChemSpider (ChenDoo, Inc.)

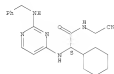
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PDB' FORMAT

114 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2008 ACS on STM
 RN 1016334-50-8 REGISTRY
 ED Entered STM: 06 Jun 2008
 CN Cyclohexanecarboxamide, N-(cyanomethyl)-4-[[2-[[4-(phenylmethyl)amino]-6-pyrimidinyl]amino]-, (6S)- (CA INDEX NAME)
 FS STEREOCENTRE
 MF C14 R16 R1 C
 SS Other Sources
 Database: ChemSpider (ChenDoo, Inc.)

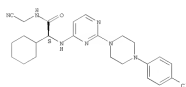
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PDB' FORMAT

114 ANSWER 4 OF 9 REGISTRY COPYRIGHT 2008 ACS on STM
 RN 1015986-08-6 REGISTRY
 ED Entered STM: 06 Jun 2008
 CN Cyclohexanecarboxamide, 4-[[2-[4-(4-chlorophenyl)-1-piperazinyl]-6-pyrimidinyl]amino]-N-(cyanomethyl)-, (6S)- (CA INDEX NAME)
 FS STEREOCENTRE
 MF C24 R10 C1 R1 C
 SS Other Sources
 Database: ChemSpider (ChenDoo, Inc.)

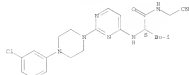
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PDB' FORMAT

114 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1615973-39-3 REGISTRY
 ED Entered STM: 05-Nov-2008
 CN Pentanamide,
 2-[[2-[4-(4-chlorophenyl)-1-piperazinyl]-4-pyridinyl]amino]-
 N-(cyanomethyl)-4-methyl-, (2S)- (CA INDEX NAME)
 FS STEREOISOMER
 MF C15 H25 Cl N7 O
 SM Other Sources
 Database: ChemSpider (ChemCo, Inc.)

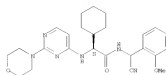
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

114 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1615904-67-8 REGISTRY
 ED Entered STM: 05-Nov-2008
 CN Cyclobutanecarboxamide, N-[[2-(4-morpholinyl)-4-pyrimidinyl]amino]-, (R,S)- (CA INDEX NAME)
 FS STEREOISOMER
 MF C15 H12 N6 O
 SM Other Sources
 Database: ChemSpider (ChemCo, Inc.)

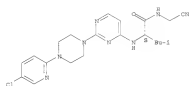
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

114 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 714216-35-0 REGISTRY
 ED Entered STM: 22-Jul-2004
 CN Pentanamide, 2-[[2-[4-(4-chloro-2-pyridinyl)-1-piperazinyl]-4-pyrimidinyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)- (CA INDEX NAME)
 FS STEREOISOMER
 MF C15 H27 Cl N8 O
 CI COM
 SM CA

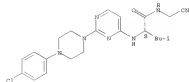
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

114 ANSWER 8 OF 9 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 714216-33-8 REGISTRY
 ED Entered STM: 22-Jul-2004
 CN Pentanamide,
 2-[[2-[4-(4-chlorophenyl)-1-piperazinyl]-4-pyrimidinyl]amino]-
 N-(cyanomethyl)-4-methyl-, (2S)- (CA INDEX NAME)
 FS STEREOISOMER
 MF C15 H25 Cl N7 O
 CI COM
 SM CA

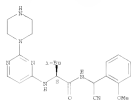
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 ANWEX 9 OF 9 REGISTRY COPYRIGHT 2009 ACS on STN
 RE 714216-18-9 REGISTRY
 ED Entered STN 22 Jul 2004
 CH Pentanamide, N-[cyano[2-methoxyphenyl)methyl]-4-methyl-2-[[2-(1-
 piperidinyl)-4-pyridinyl]amino]-, (2S)- (CA INDEX NAME)
 TS
 MF C12 H11 N3 O2
 STEREOBOND
 CI OAN
 SA CA

Absolute stereochemistry:



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	244.99	461.68
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-1.60

FILE 'CAPLUS' ENTERED AT 08:09:56 ON 20 OCT 2008
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FILE COVERS 1907 - 20 Oct 2008 VOL 149 ISS 17
 FILE LAST UPDATED: 19 Oct 2008 (20081019/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

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<http://www.cas.org/legal/infopolicy.html>

=> d his

(FILE 'HOME' ENTERED AT 08:03:15 ON 20 OCT 2008)

FILE 'REGISTRY' ENTERED AT 08:04:28 ON 20 OCT 2008

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L2	1 S L1
L3	11 S L1 FULL
L4	1 S L3 AND CAPLUS/LC
L5	10 S L3 NOT L4

FILE 'CAPLUS' ENTERED AT 08:06:43 ON 20 OCT 2008

L6	2 S L4
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FILE 'REGISTRY' ENTERED AT 08:07:23 ON 20 OCT 2008

L7	STRUCTURE UPLOADED
L8	2 S L7
L9	76 S L7 FULL
L10	STRUCTURE UPLOADED
L11	30 S L10 FULL SUB=L9
L12	46 S L9 NOT L11

L13 37 S L12 AND CAPLUS/LC
L14 9 S L12 NOT L13

FILE 'CAPLUS' ENTERED AT 08:09:56 ON 20 OCT 2008

=> s l13
L15 4 L13

=> d ibib abs hitstr 1-4

L15 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

morpholine.

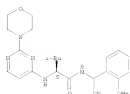
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714216-47-4P 714216-48-5P 714216-49-6P
714216-50-9P 714216-51-0P 714216-52-1P
714216-53-2P

RI: PAC (Pharmacological activity); SPN (Synthetic preparation); TSD (Therapeutic use); RLO (Biological study); PREP (Preparation); USGS (Uses)
[preparation of amino acid derivative, as osthapain cysteine protease inhibitor]

BN 714216-11-9 CAPLUS

CH Pentanamide, N-[cyano[2-methoxyphenyl]methyl]-4-methyl-2-[[2-(4-morpholinyl)-6-pyridinyl]amino]-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



BN 714216-19-0 CAPLUS

CH Pentanamide, N-[cyano[2-methoxyphenyl]methyl]-4-methyl-2-[[2-(1-piperazinyl)-4-pyridinyl]amino]-, (2R)-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

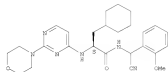
CH 1

CHN 714216-19-9

CMF C23 R31 NT 02

Absolute stereochemistry.

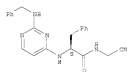
L15 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



BN 714216-22-5 CAPLUS

CH Benzenesulfonylurea, N-[cyano[2-methoxyphenyl]methyl]-4-methyl-2-[[2-(1-piperazinyl)-4-pyridinyl]amino]-, (4S)- (CA INDEX NAME)

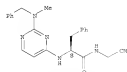
Absolute stereochemistry.



BN 714216-23-6 CAPLUS

CH Benzenesulfonylurea, N-[cyano[2-methoxyphenyl]methyl]-4-methyl-2-[[2-(1-piperazinyl)-4-pyridinyl]amino]-, (4S)- (CA INDEX NAME)

Absolute stereochemistry.

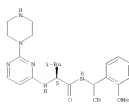


BN 714216-24-7 CAPLUS

CH Benzenesulfonylurea, N-[cyano[2-methoxyphenyl]methyl]-4-methyl-2-[[2-(1-piperazinyl)-4-pyridinyl]amino]-, (4S)- (CA INDEX NAME)

Absolute stereochemistry.

L15 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



CH 2

CHN 714216-05-1

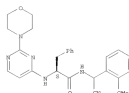
CMF C2 R F3 02



BN 714216-20-7 CAPLUS

CH Benzenesulfonylurea, N-[cyano[2-methoxyphenyl]methyl]-4-methyl-2-[[2-(1-piperazinyl)-4-pyridinyl]amino]-, (4S)- (CA INDEX NAME)

Absolute stereochemistry.

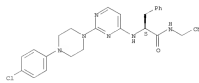


BN 714216-21-4 CAPLUS

CH Cyclohexanesulfonylurea, N-[cyano[2-methoxyphenyl]methyl]-4-methyl-2-[[2-(1-piperazinyl)-4-pyridinyl]amino]-, (4S)- (CA INDEX NAME)

Absolute stereochemistry.

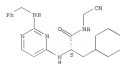
L15 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



BN 714216-25-8 CAPLUS

CH Cyclohexanesulfonylurea, N-[cyano[2-methoxyphenyl]methyl]-4-methyl-2-[[2-(1-piperazinyl)-4-pyridinyl]amino]-, (4S)- (CA INDEX NAME)

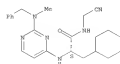
Absolute stereochemistry.



BN 714216-26-9 CAPLUS

CH Cyclohexanesulfonylurea, N-[cyano[2-methoxyphenyl]methyl]-4-methyl-2-[[2-(1-piperazinyl)-4-pyridinyl]amino]-, (4S)- (CA INDEX NAME)

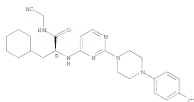
Absolute stereochemistry.



BN 714216-27-0 CAPLUS

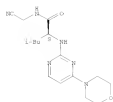
CH Cyclohexanesulfonylurea, N-[cyano[2-methoxyphenyl]methyl]-4-methyl-2-[[2-(1-piperazinyl)-4-pyridinyl]amino]-, (4S)- (CA INDEX NAME)

Absolute stereochemistry.



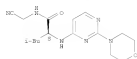
XX 714216-29-1 CAPLOS
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[4-(4-morpholinyl)-2-pyridinyl]amino]-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



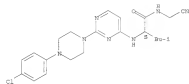
XX 714216-29-2 CAPLOS
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[2-(4-morpholinyl)-4-pyridinyl]amino]-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



XX 714216-30-5 CAPLOS
CN Pentanamide, N-(cyanomethyl)-2-[[2-(4-hydroxy-4-phenyl-1-piperidinyl)-4-pyridinyl]amino]-4-methyl-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



CN 2

CN 76-05-1
CNF C2 H F3 O2

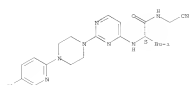


XX 714216-35-0 CAPLOS
CN Pentanamide, 2-[[2-[4-(5-chloro-2-pyridinyl)-1-piperazinyl]-4-pyridinyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)-, 2,1,2-trifluoroacetate (1:2) (CA INDEX NAME)

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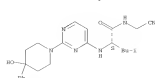
CN 714216-35-0
CNF C21 H27 Cl N9 O

Absolute stereochemistry.



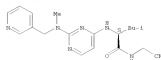
CN 2

Absolute stereochemistry.



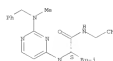
XX 714216-33-4 CAPLOS
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[2-(methyl(3-pyridinylmethyl)amino)-6-pyridinyl]amino]-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



XX 714216-32-7 CAPLOS
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[2-(methyl(phenylmethyl)amino)-4-pyridinyl]amino]-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



XX 714216-34-9 CAPLOS
CN Pentanamide, 2-[[2-[4-(4-chlorophenyl)-1-piperazinyl]-4-pyridinyl]amino]-N-(cyanomethyl)-4-methyl-, (2S)-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CN 1

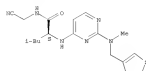
CN 714216-34-9
CNF C22 H29 Cl N7 O

CN 76-05-1
CNF C2 H F3 O2



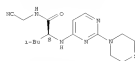
XX 714216-37-2 CAPLOS
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[2-(methyl(3-thienylmethyl)amino)-6-pyridinyl]amino]-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



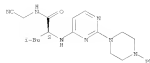
XX 714216-38-3 CAPLOS
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[2-(4-thiomorpholinyl)-4-pyridinyl]amino]-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.

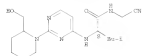


XX 714216-39-4 CAPLOS
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[2-(4-phenyl-1-piperazinyl)-4-pyridinyl]amino]-, (2S)- (CA INDEX NAME)

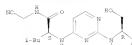
Absolute stereochemistry.



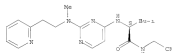
714216-42-7 CAPLUS
CN Pentanamide, N-(cyanomethyl)-2-[[2-[(2-hydroxyethyl)-1-piperidinyl]-4-pyrindinyl]amino]-4-methyl-, (2S)- (CA INDEX NAME)
Absolute stereochemistry.



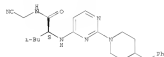
714216-43-8 CAPLUS
CN Pentanamide, N-(cyanomethyl)-2-[[2-[(2S)-2-(hydroxyethyl)-1-pyrrolidinyl]-4-pyrindinyl]amino]-4-methyl-, (2S)- (CA INDEX NAME)
Absolute stereochemistry.



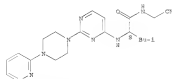
714216-42-9 CAPLUS
CN Pentanamide, N-(cyanomethyl)-2-[[2-[(4-hydroxy-1-piperidinyl)-4-pyrindinyl]amino]-4-methyl-, (2S)- (CA INDEX NAME)
Absolute stereochemistry.



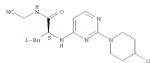
714216-44-3 CAPLUS
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[2-[(4-phenylethyl)-1-piperidinyl]-4-pyrindinyl]amino]-4-methyl-, (2S)- (CA INDEX NAME)
Absolute stereochemistry.



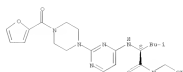
714216-47-4 CAPLUS
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[2-[(4-[2-pyridinyl]-1-piperidinyl]-4-pyrindinyl]amino]-4-methyl-, (2S)- (CA INDEX NAME)
Absolute stereochemistry.



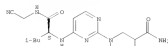
714216-48-5 CAPLUS
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[2-[(4-phenyl)-1-piperidinyl]-4-pyrindinyl]amino]-4-methyl-, (2S)- (CA INDEX NAME)
Absolute stereochemistry.



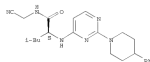
714216-43-9 CAPLUS
CN Pentanamide, N-(cyanomethyl)-2-[[2-[(4-[2-furanylcarbonyl]-1-piperidinyl]-4-pyrindinyl]amino]-4-methyl-, (2S)- (CA INDEX NAME)
Absolute stereochemistry.



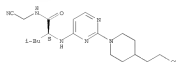
714216-44-1 CAPLUS
CN 3-Piperidinecarboxamide, 3-[4-[[[(2S)-1-[(cyanomethyl)amino]carbonyl]-3-methylbutyl]amino]-4-pyrindinyl]- (CA INDEX NAME)
Absolute stereochemistry.



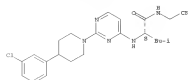
714216-45-2 CAPLUS
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[2-[(methyl[2-(2-pyrindinyl)ethyl]amino)-4-pyrindinyl]amino]-4-methyl-, (2S)- (CA INDEX NAME)
Absolute stereochemistry.



714216-46-3 CAPLUS
CN Pentanamide, N-(cyanomethyl)-2-[[2-[(4-[2-hydroxyethyl]-1-piperidinyl]-4-pyrindinyl]amino]-4-methyl-, (2S)- (CA INDEX NAME)
Absolute stereochemistry.

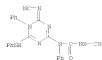


714216-50-9 CAPLUS
CN Pentanamide, 2-[[2-[(4-[2-(4-chlorophenyl)-1-piperidinyl]-4-pyrindinyl]amino)-N-(cyanomethyl)-4-methyl-, (2S)- (CA INDEX NAME)
Absolute stereochemistry.



714216-51-0 CAPLUS
CN Pentanamide, N-(cyanomethyl)-4-methyl-2-[[2-[(4-phenyl)-1-piperidinyl]-4-pyrindinyl]amino]-4-methyl-, (2S)- (CA INDEX NAME)
Absolute stereochemistry.

ACCESSION NUMBER: 1994:579350 CAPLUS
 DOCUMENT NUMBER: 125:500355
 ORIGINAL REFERENCE NO.: 125:563314,563344
 TITLE: Reaction of 3-cyano-2-methyl-1-phenylisothiourea with
 isocyanates, isothiocyanate and carbodiimide
 AUTHOR(S): Suyama, Takayuki; Kimura, Akifumi; Kauchi, Yatsuyuki
 CORPORATE SOURCE: Faculty Engineering, Kanagawa Institute Technology,
 Atsugi, 243-02, Japan
 SOURCE: Nippon Kagaku Zasshi (1994), (9), 845-848
 CODEN: NKAGDH; ISSN: 0369-4577
 NUCLEONUM: Nippon Kagaku Zasshi
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese
 AB: It was clarified that 3-cyano-2-methyl-1-phenylisothiourea (I) reacted
 with silver nitrate in the presence of triethylamine to give rise to
 8-cyano-8'-phenylisodiazolidine, which reacted with I to give
 3-cyano-8'-phenylisodiazolidine, which reacted with I to give
 3-cyano-8'-phenylisodiazolidine-6-[[N-(3-cyano-2-methyl-1-phenylisodiazolidine)-5-methylthio]-1,3-
 diphenyl-1,1,3,3-tetrahydro-1,2,4-triazine. In a similar manner, I
 reacted with two molar eqts. of Ph isocyanate, Ph isothiocyanate and
 diphenylisodiazolidine in the presence of triethylamine to afford
 corresponding tetrahydro-1,7,5-triazines.
 IT: 125:944-92-7P
 EL: RCT (Reactant); SYN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 REACTION OF 3-CYANO-2-METHYL-1-PHENYLISOTHIOUREA WITH SILVER NITRATE
 IN
 125:944-92-7 CAPLUS
 CD: Urea, N'-cyano-N-[6-(cyanoamino)-4,5-dihydro-5-phenyl-4-(phenylimino)-
 1,3,5-triazin-2-yl]-D-phenyl- (PC1) [CA INDEX NAME]



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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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FULL ESTIMATED COST	24.68	486.36
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.20	-4.80

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 DICTIONARY FILE UPDATES: 17 OCT 2008 HIGHEST RN 1062752-24-2

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 experimental property data in the original document. For information
 on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\QUERIES\105384521.str



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ring nodes :
1 2 3 4 5 6
ring/chain nodes :
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chain bonds :
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ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
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G1:C,N

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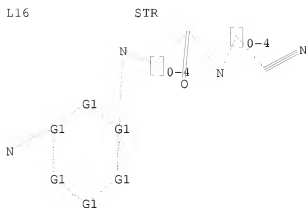
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12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS

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L16 STRUCTURE UPLOADED

=> d

L16 HAS NO ANSWERS



G1 C,N

Structure attributes must be viewed using STN Express query preparation.

=> s l16

SAMPLE SEARCH INITIATED 08:13:41 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 5038 TO ITERATE

39.7% PROCESSED 2000 ITERATIONS

2 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 96504 TO 105016

PROJECTED ANSWERS: 2 TO 234

L17 2 SEA SSS SAM L16

=> s l16 full

FULL SEARCH INITIATED 08:13:47 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 101953 TO ITERATE

100.0% PROCESSED 101953 ITERATIONS

34 ANSWERS

SEARCH TIME: 00.00.01

L18 34 SEA SSS FUL L16

=> s l18 and caplus/lc

59346897 CAPLUS/LC

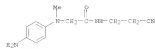
L19 21 L18 AND CAPLUS/LC

=> s l18 not l19

L20 13 L18 NOT L19

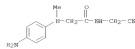
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L20 ANSWER 1 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1019811-06-5 REGISTRY
 ED Entered STN: 10 Aug 2008
 CN Acetanide, 2-[(4-aminophenyl)methylamino]-N-(2-cyanoethyl)- (CA INDEX
 NAME)
 MF C15 H16 N4 O
 SR Chemical Catalog
 Suppliers: StarOrgSynthesis
 LC STN Files: CHEMCATS



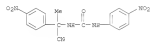
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 2 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1019830-76-6 REGISTRY
 ED Entered STN: 10 Aug 2008
 CN Acetanide, 2-[(4-aminophenyl)methylamino]-N-(cyanomethyl)- (CA INDEX
 NAME)
 MF C11 H14 N4 O
 SR Chemical Catalog
 Suppliers: StarOrgSynthesis
 LC STN Files: CHEMCATS



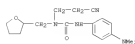
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 3 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1021940-88-4 REGISTRY
 ED Entered STN: 10 Jun 2008
 CN Urea, N-[(1-cyano-1-(4-nitrophenyl)ethyl]-N'-(4-nitrophenyl)- (CA INDEX
 NAME)
 MF C14 H13 N5 O5
 SR Other Sources
 Database: ChemSpider (ChemDuo, Inc.)



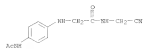
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 4 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1022254-76-7 REGISTRY
 ED Entered STN: 15 May 2008
 CN Urea, N-(2-cyanoethyl)-N'-(4-(dimethylamino)phenyl)-N-[(tetrahydro-2-furanyl)methyl]- (CA INDEX NAME)
 MF C17 H24 N4 O2
 SR Other Sources
 Database: ChemDB (University of California Irvine)



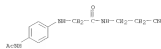
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 5 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1010911-63-8 REGISTRY
 ED Entered STN: 15 May 2008
 CN Acetanilide, 2-[[4-(acetylamino)phenyl]amino]-N-(cyanomethyl)- (CA INDEX
 NAME)
 MF C12 H14 N4 O2
 SR Chemical Catalog
 Supplier: Aurora Fine Chemicals
 LC STN Files: CHEMCATS



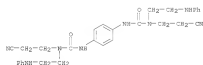
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 6 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1010965-63-0 REGISTRY
 ED Entered STN: 15 May 2008
 CN Acetanilide, 2-[[4-(acetylamino)phenyl]amino]-N-(2-cyanomethyl)- (CA INDEX
 NAME)
 MF C13 H16 N4 O2
 SR Chemical Catalog
 Supplier: Aurora Fine Chemicals
 LC STN Files: CHEMCATS



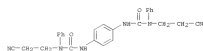
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L20 ANSWER 7 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 905073-22-9 REGISTRY
 ED Entered STN: 23 Sep 2006
 CN INDEX NAME NOT YET ASSIGNED
 MF C10 H14 N2 O2
 SR Other Sources
 Database: NCI Cancer Screened (National Cancer Institute)



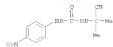
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 8 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 907859-68-6 REGISTRY
 ED Entered STN: 30 Sep 2006
 CN INDEX NAME NOT YET ASSIGNED
 MF C16 H24 N2 O2
 SR Other Sources
 Database: NCI 3D (National Cancer Institute)



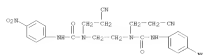
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 9 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 848215-17-8 REGISTRY
 ED Entered STN: 15 Aug 2005
 CN Urea, N-(1-cyano-1-methylethyl)-N'-(4-nitrophenyl)- (CA INDEX NAME)
 MF C12 H12 N4 O3
 SR Chemical Library
 Supplier: Alfa Consulting and Solutions GmbH
 LC STN Files: CHEMCATS



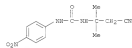
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 10 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 380332-15-0 REGISTRY
 ED Entered STN: 03 Jan 2002
 CN Urea, N,N''',1,2-ethanediylbis[N-(2-cyanoethyl)-N'-(4-nitrophenyl)-] (SCI)
 (CA INDEX NAME)
 MF C22 H22 N8 O6
 SR Chemical Library
 Supplier: Ambinter
 LC STN Files: CHEMCATS



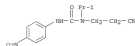
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 11 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 294854-09-4 REGISTRY
 ED Entered STN: 12 Oct 2005
 CN Urea, N-(2-cyano-1,1-dimethylethyl)-N'-(4-nitrophenyl)- (CA INDEX NAME)
 MF C12 H14 N4 O3
 SR Chemical Library
 Supplier: Oak Samples Ltd.
 LC STN Files: CHEMCATS



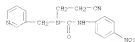
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 12 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 291278-41-0 REGISTRY
 ED Entered STN: 27 Sep 2000
 CN Urea, N-(2-cyanoethyl)-N'-(1-methylethyl)-N'-(4-nitrophenyl)- (CA INDEX NAME)
 MF C13 H16 N4 O3
 SR Chemical Library
 Supplier: ComGenex International Inc.
 LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 APPENDIX 13 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
 NH 203059-79-6 REGISTRY
 ED Entered STN: 14 Sep 2008
 CH Urea, N-(2-cyanoethyl)-N'-(4-nitrophenyl)-N-(3-pyridinylmethyl)- 1CA
 INDEX NAME
 MF C16 H15 N5 O3
 SA Chemical Library
 Supplier: Comins Inc International Inc.
 LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> fil caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	209.97	696.33
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-4.80

FILE 'CAPLUS' ENTERED AT 08:14:29 ON 20 OCT 2008
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FILE COVERS 1907 - 20 Oct 2008 VOL 149 ISS 17
 FILE LAST UPDATED: 19 Oct 2008 (20081019/ED)

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=> d his

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FILE 'REGISTRY' ENTERED AT 08:04:28 ON 20 OCT 2008

L1	STRUCTURE UPLOADED
L2	1 S L1
L3	11 S L1 FULL
L4	1 S L3 AND CAPLUS/LC
L5	10 S L3 NOT L4

FILE 'CAPLUS' ENTERED AT 08:06:43 ON 20 OCT 2008

L6	2 S L4
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FILE 'REGISTRY' ENTERED AT 08:07:23 ON 20 OCT 2008

L7	STRUCTURE UPLOADED
L8	2 S L7
L9	76 S L7 FULL
L10	STRUCTURE UPLOADED
L11	30 S L10 FULL SUB=L9
L12	46 S L9 NOT L11

L13 37 S L12 AND CAPLUS/LC
L14 9 S L12 NOT L13

FILE 'CAPLUS' ENTERED AT 08:09:56 ON 20 OCT 2008
L15 4 S L13

FILE 'REGISTRY' ENTERED AT 08:13:22 ON 20 OCT 2008
L16 STRUCTURE UPLOADED
L17 2 S L16
L18 34 S L16 FULL
L19 21 S L18 AND CAPLUS/LC
L20 13 S L18 NOT L19

FILE 'CAPLUS' ENTERED AT 08:14:29 ON 20 OCT 2008

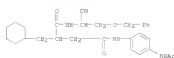
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L21 18 L19

=> d ibib abs hitstr 1-18

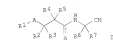
Relative stereochemistry.

121 ANWEX 6 OF 18 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)
 H, alkyl; R5 = H, alkyl, cycloalkyl, aryl, heterocyclyl, heteroaryl; R6 = H, alkyl optionally interrupted by 1-2 M, O, S; R7 = H, alkyl, alkyl interrupted by 1-2 M, O, S, cycloalkyl, aryl, heterocyclyl, aryl, heteroaryl, spiro M&T atoms to form a 4-7 membered heterocyclic or carbocyclic ring; R8 = H, alkyl, cycloalkyl, cycloalkylalkyl, alkylalkyl X = O, S, were prepared, as inhibitors of cysteine proteases such as cathepsins B, F, R, L, and S in the treatment of autoimmune diseases, Alzheimer's disease, and atherosclerosis. Thus,
 (1) 2-cyclohexylmethyl-4-morpholin-4-yl-4-oxobutyric acid (prepn. given) in DMF at 0° was treated with EDC, 3-hydroxyphenotriazole, O-benzyl-L-serineamide, EDC, and N-methylmorpholine followed by stirring overnight to give N-(2-benzoyloxy-1-methoxyethyl)-2-cyclohexylmethyl-4-morpholin-4-yl-oxobutyramide. The latter was stirred 1 h with pyridine chloride in DMF at 0° to give title compd. (II). 1 inhibited cathepsin B with IC50s 100 µM.

IT 324794-60-7P
 R4, R6C (biological activity or effector, except address); R5U (biological study, unclassified); SW (synthetic preparation); TH (Therapeutic use); R1C (biological study); PRP (Preparation); USG (Uses) (preparation of succinic acid diamides as inhibitors of cysteine proteases (cathepsins) in the treatment of autoimmune diseases, Alzheimer's disease, and atherosclerosis)
 R2 324794-60-7 CAPLUS
 CH Butenamide, N4-(4-(acetylamino)phenyl)-N1-(3-cyano-2-(phenylmethoxy)ethyl)-2-(cyclohexylmethyl)- (CA INDEX NAME)



121 ANWEX 7 OF 18 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)



AS Title compds. II; A = CO, R1OCH3; R1 = (substituted) alkyl, cycloalkyl, aryl, heterocyclyl, heteroaryl, amino; R2 = H, alkyl, OH, alkoxy; R3, R4 = H, alkyl; R5 = H, alkyl, cycloalkyl, aryl, heterocyclyl, heteroaryl; R6 = H, alkyl optionally interrupted by 1-2 M, O, S; R7 = H, alkyl, alkyl interrupted by 1-2 M, O, S, cycloalkyl, aryl, heterocyclyl, aryl, heteroaryl, spiro M&T atoms to form a 4-7 membered heterocyclic or carbocyclic ring; R8 = H, alkyl, cycloalkyl, cycloalkylalkyl, alkylalkyl X = O, S, were prepared as inhibitors of cysteine proteases such as cathepsins B, F, R, L, and S in the treatment of autoimmune diseases, Alzheimer's disease, and atherosclerosis. Thus,
 (1) 2-cyclohexylmethyl-4-morpholin-4-yl-4-oxobutyric acid (preparation given) in DMF at 0° was treated with EDC, 3-hydroxyphenotriazole, O-benzyl-L-serineamide, and N-methylmorpholine followed by stirring overnight to give N-(2-benzoyloxy-1-methoxyethyl)-2-cyclohexylmethyl-4-morpholin-4-yl-oxobutyramide. The latter was stirred 1 h with pyridine chloride in DMF at 0° to give title compound (II). 1 inhibited cathepsin B with IC50s 100 µM.

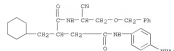
IT 324794-60-7P
 R4, R6C (biological activity or effector, except address); R5U (biological study, unclassified); SW (synthetic preparation); TH (Therapeutic use); R1C (biological study); PRP (Preparation); USG (Uses) (preparation of succinic acid diamides as inhibitors of cysteine proteases (cathepsins) in the treatment of autoimmune diseases, Alzheimer's disease, and atherosclerosis)
 R2 324794-60-7 CAPLUS
 CH Butenamide, N4-(4-(acetylamino)phenyl)-N1-(3-cyano-2-(phenylmethoxy)ethyl)-2-(cyclohexylmethyl)- (CA INDEX NAME)

121 ANWEX 7 OF 18 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)
 ACCESSION NUMBER: 2001101117 CAPLUS
 DOCUMENT NUMBER: 134163044
 TITLE: Preparation of succinic acid diamides as cysteine protease inhibitors
 INVENTOR(S): Bakula, Youssef, Betagera, Raj; Ramanani, Michael; Hickey, Eugene; Liu, Meiming; Spero, Denise M.; Thomson, David S.; Ward, Yancy; Yomse, Rajib R.; Patel, Gha
 PATENT ASSIGNEE(S): Beckinger, Jagdeep Pharmaceuticals, Inc., USA
 SOURCE: PCT Int. Appl., 221 pp.
 COUNTRY: INDIAN
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	FIND	DATE	APPLICATION NO.	DATE
WO 2001009110	A1	20010208	WO 2000/020453	20000718
W1, CA, JP, KR				
RM: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, NL, NO, PT, SE				
CA 2379747	A1	20010208	CA 2000-2379747	20000718
C 200004923				
EP 1204652	A1	20000515	EP 2000-950777	20000718
EP 1204652	BE	20000517		
H, AT, BE, CH, DE, DK, ES, FI, GB, GR, IE, IT, LU, NL, NO, PT, SE, PT, SI, SV, LT, LV, FI, RO, NO, CY, AL				
JP 200705034	T	20070318	JP 2003-154333	20000718
AT 24454	T	20040615	AT 2000-950777	20000718
ES 2244977	T3	20070201	ES 2000-950777	20000718
MX 2002PA01014	A	20020612	MX 2002-PA01014	20010119
PRIORITY APPL. INFO.			US 1999-14647P	F 19990718
			WO 2000-020453	F 20000718

OTHER SOURCE(S):
 GI
 NAFPAT 134163044
 WO 2000-020453
 F 20000718

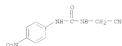
121 ANWEX 7 OF 18 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)



REFERENCE COUNT: 2
 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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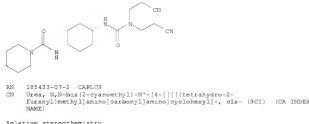
L21 ANWER 6 OF 18 CAPLUS COPYRIGHT 2008 ACS ON STM
 ACCESSION NUMBER: 2009:651417 CAPLUS
 DOCUMENT NUMBER: 129:22154
 TITLE: Structure-activity relationship of sweet molecules: phenylurea derivatives
 AUTHOR(S): Jasrab, V.; Tomita-Motoba, K.; Kulewsk, R. I.
 CORPORATE SOURCE: Department of Chemistry of Natural Products, Poznan University of Economics, Poznan, 60 567, Pol.
 SOURCE: Polish Journal of Chemistry (2009), 74(9), 1259-1273
 COUNTRY: POLAND; ISSN: 0373-5023
 PUBLISHER: Polish Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A model of sweet and non-sweet substituted phenylurea has been developed by discriminant anal. of chemical and structural data. The model has been used to predict the taste of addnl. phenylurea deriva. of unknown taste and to select candidates for chemical synthesis and sensory anal. The 3-dimensional computer aided model of compds. of interest was generated and fitted a spatial receptor model, to discuss importance of hydrogen bonding, bulkiness and the steric factor for sweetness.

IT 30286-85-1
 RI: PAC (Biological activity or effector, except adrenergic) R0D (Biological)
 study, unclassified: R0D (Biological study)
 RI: PAC (Biological activity or effector, except adrenergic) R0D (Biological)
 RI 30286-85-1 CAPLUS
 CN Urea, N-(cyclohexyl)-N'-(4-nitrophenyl)- (CA INDEX NAME)

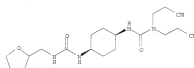


REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RS
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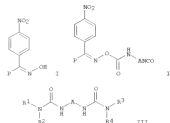
L21 ANWER 9 OF 18 CAPLUS COPYRIGHT 2008 ACS ON STM (Continued)
 Relative stereochemistry.



Relative stereochemistry.



L21 ANWER 9 OF 18 CAPLUS COPYRIGHT 2008 ACS ON STM
 ACCESSION NUMBER: 1994:483459 CAPLUS
 DOCUMENT NUMBER: 126:1627
 ORIGINAL REFERENCE NO.: 126:143894
 TITLE: Heterocyclic compounds as scaffolds for combinatorial libraries. The solid-phase synthesis of bis[ureas] from polymer-supported diisocyanates
 AUTHOR(S): Saitoh, M.
 CORPORATE SOURCE: Central Res. and Development, S. I. Du Pont de Nemours and Co., Wilmington, DE, 19886-0128, USA
 SOURCE: Tetrahedron Letters (1994), 35(1), 5141-5144
 COUNTRY: USA; ISSN: 0040-4039
 PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 RI

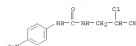


AB A general method for preparation of bis[ureas] was developed from oxime resin-derived carboxamides of diisocyanates. Thus, monomers of diisocyanates a polymer-supported 4-nitrobenzylaldehyde oxime I (P = polymer support) gave bis[ureas] II (P = polymer support; A = alkamylidyl). Treatment of II with amines gave the alkamylidylbis[ureas] III (21-24 = alkyl, cyclohexylmethyl, 4-morpholinyl, etc.). Parenteral urea synthesis was achieved by sequential amine addition which demonstrated the utility of thermolabile oxime-derived carbonate linkages to a polymer support. The products, obtained in good yield in three steps, were of high chemical purity.
 IT 185433-06-1P 185433-07-2P
 RI: PAC (Synthetic preparation) / PREP (Preparation)
 RI 185433-06-1 CAPLUS
 CN 1-Piperidinolcarbamate, N-[4-(4-[[[bis(2-oxocyclohexyl)amino]oxy]amino]cyclohexyl]- (CA INDEX NAME)

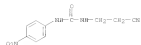
L21 ANWER 10 OF 18 CAPLUS COPYRIGHT 2008 ACS ON STM
 ACCESSION NUMBER: 1980:514106 CAPLUS
 DOCUMENT NUMBER: 95:114106
 ORIGINAL REFERENCE NO.: 95:182436,182524
 TITLE: Reactivity of N,N-dichloroethanes. IX. Addition of N,N-dichloroethanes to alkenes with electron-acceptor groups
 AUTHOR(S): Baloch, Ya. G.; Farjany, V. E.
 CORPORATE SOURCE: Riv. Neurobiol. Inst. Endocrinol. Omana
 SOURCE: Vachaspathy, Rev. OMS
 JOURNAL: Organometallics (1980), 16(3), 556-63
 COUNTRY: INDIA; ISSN: 0274-7672
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 93:114106
 AB Addition of CLICHOR (R = H, Me, Et) to RICHOR (R = cyano, MeOC, H2NOC) in the presence of powdered Cu or CuCl gave 4 corresponding RICHORCHOR (II)

In 58-83% yield. Treating I with Me2SO3 or Me2SO3 yielded 7-9-4 RICHORCHOR (II) which cyclized at 160-170°C to give 4,3 2-cyano- and 2,3 5-(methoxycarbonyl)oxazolin-2-one. I (R = Me, Et) 2,3 = cyano) reacted with P(OEt)3 in refluxing CBr4 to give 64-78 RICHORCHOR(CHOR) (III) (R1, R2 (same R) and 87-94 RICHOR (R1 = Me, Et) to give II (same R, R1 = cyano), with EtO to give 63 RICHORCHOR(CHOR) (R1 = H, Me, Et) and 64-78 RICHOR (R1 = H, Me, Et) to give the corresponding RICHORCHORCHORCHOR (IV) in 78-94% yield. Reactions of IV are described.

IT 7448-71-8P
 RI: PAC (Synthetic preparation) / PREP (Preparation)
 RI 7448-71-8 CAPLUS
 CN Urea, N-(2-chloro-2-cyanoethyl)-N'-(4-nitrophenyl)- (CA INDEX NAME)



```
DOCUMENT TYPE: JOURNAL ENTRY; IDNO: 0028-1042
LANGUAGE: English
AB In taste of 16 compounds, the N02 and CN groups in sweeteners acted on sweet
taste receptors similarly, and both acted differently from the COO-
groups. The sweet taste receptor may have 2 specific sites, 1 for the
N02
and CN groups, and 1 for the COO- group.
77 74390-17-3
E1: PEP (Properties)
[sweetness taste receptor response]
78 74390-17-3 CAPLOS
[peptide; amino acid; L-alanine; L-glutamic acid; L-proline; L-serine; L-threonine; L-valine]
```



L41 ANWMA 13 of 26 CAPLUS COPYRIGHT 2008 ACS on STM
 ACCESSION NUMBER: 1966:18945 CAPLUS
 DOCUMENT NUMBER: 64:18945
 ORIGINAL REFERENCE NO.: 64:34170-f
 TITLE: 1,3-Substituted ureas as selective herbicides
 INVENTOR(S): Hironaka, John V.; Kroll, Harry; Petersen, Janet M
 DOCUMENT ASSIGNOR(S): Cellegy Chemical Corp.
 DOCUMENT TYPE: 5 pp.; Division of U.S. 3,134,663 (CA 61, 31170)
 PATENT
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3203258		19650907	US 1958-751589	19580714
PRIORITY APPLN. INFO.:			US	19580714

01 For diagram(s), see printed CA issue.
A3 1a can be formulated into compo. to provide selective control of weed
without imparting to the soil long-lasting herbicidal properties.
3-(2,4-Dichlorophenyl)-1-methyl-1-cyanomethylurea is prepared by
treating 57

parts 2,4-dichlorophenyl isocyanate in 130 parts dry C6H6 with a solution of 21 parts N-methylanino-acetonitrile in 150 parts of dry C6H6 at 40-50° for 1.5 hrs.; total yield is 70%, m. 120-6; 3-(3-trifluoromethyl-4-chlorophenyl)-1-methyl-1-cyanomethylurea is prepared by treating a solution of 56.2 parts of

[illegible]

IT evolution of 939).

4934-34-3P, Urea, 3-(p-acetamidophenyl)-1-(1-cyanomethyl)-1-methyl-
4934-34-4P, Urea, 3-(p-acetamidophenyl)-1-(1-(dimethylamino)phenyl)-1-
methyl- 5594-49-0P, Urea, 1-(cyanomethyl)-1-methyl-3-(p-matrophanyl)-
Rt: PPEP (Preparation of)

preparation of)

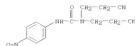
4934-34-3 CAPES

Urea, 3-(p-acetamidophenyl)-1-(1-cyanomethyl)-1-methyl- (6Cl, 7Cl, 8Cl)

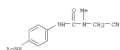
CA

L21 ANKHEK 12 OF CAPLUS COPYRIGHT 2008 ACS on ETH
 1969;512522 CAPLUS
 DOCUMENT NUMBER: 71:112522
 ORIGINAL REFERENCE NO.: 71:209184;29224
 TITLE: Reaction of 1,2-bis(8-cyanophenyl)urea with aromatic amines
 Kestov, A. E.; Borodavko, N. B.; Gaponova, A. P.;
 Dnepropetrovsk. Khim.-Tekhnol. Inst., Dnepropetrovsk,
 USSR
 JOURNAL: Zhurnal Organicheskoi Khimii (1969); 5(8), 1466-9
 CODEN: ZORNAK; ISSN: 0514-7492

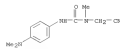
AC	Chemical Type:	Normal
AD	Chemical Name:	Russian
AE	The reaction of H2NCH(C6H4)CH2CH2NH2 with aromatic primary amines gave	
AF	results:	
AG	of H2NCH(C6H4)CH2, H2NCH(C6H4)CH2, and H2NCH(C6H4)CH2 (I) (R = Ph,	
AH	2,6-dimethyl, 2,6-dimethyl, 3-methyl, 4,4'-dimethyl, 4,4'-dimethyl, 4,4'-dimethyl,	
AI	4,4'-dimethyl, or 4,4'-dimethyl). The relative rates of 1 and 2 are	
AJ	on the reaction conditions. Heating I in EtOH containing NaOH gave	
AK	H2NCH(C6H4)CH2.	
AL	H2NCH(C6H4)CH2. Refining 2 (R = p-NO2-C6H4) in concentrated HCl solution	
AM	gave H2NCH(C6H4)CH2.	
AN	and (p-nitrophenyl)-2,2,6,6-tetra-3-(p-tolyl)azobenzophenone.	
AO	17 27993-79-59	
AP	See also (Synthetic preparation); PREP (Preparation)	
AQ	(Preparation of)	
AR	27993-79-59	
AS	See also (Synthetic preparation); PREP (Preparation)	
AT	27993-79-59	
AV	See also (Synthetic preparation); PREP (Preparation)	
AW	27993-79-59	
AX	See also (Synthetic preparation); PREP (Preparation)	
AY	27993-79-59	
AZ	See also (Synthetic preparation); PREP (Preparation)	
BA	27993-79-59	
BB	See also (Synthetic preparation); PREP (Preparation)	
BC	27993-79-59	
BD	See also (Synthetic preparation); PREP (Preparation)	
BE	27993-79-59	
BF	See also (Synthetic preparation); PREP (Preparation)	
BG	27993-79-59	
BH	See also (Synthetic preparation); PREP (Preparation)	
BI	27993-79-59	
BJ	See also (Synthetic preparation); PREP (Preparation)	
BK	27993-79-59	
BL	See also (Synthetic preparation); PREP (Preparation)	
BM	27993-79-59	
BN	See also (Synthetic preparation); PREP (Preparation)	
BO	27993-79-59	
BP	See also (Synthetic preparation); PREP (Preparation)	
BQ	27993-79-59	
BR	See also (Synthetic preparation); PREP (Preparation)	
BS	27993-79-59	
BT	See also (Synthetic preparation); PREP (Preparation)	
BU	27993-79-59	
BV	See also (Synthetic preparation); PREP (Preparation)	
BW	27993-79-59	
BX	See also (Synthetic preparation); PREP (Preparation)	
BY	27993-79-59	
BZ	See also (Synthetic preparation); PREP (Preparation)	
CA	27993-79-59	
CB	See also (Synthetic preparation); PREP (Preparation)	
CC	27993-79-59	
CD	See also (Synthetic preparation); PREP (Preparation)	
CE	27993-79-59	
CF	See also (Synthetic preparation); PREP (Preparation)	
CG	27993-79-59	
CH	See also (Synthetic preparation); PREP (Preparation)	
CI	27993-79-59	
CJ	See also (Synthetic preparation); PREP (Preparation)	
CK	27993-79-59	
CL	See also (Synthetic preparation); PREP (Preparation)	
CM	27993-79-59	
CN	See also (Synthetic preparation); PREP (Preparation)	
CO	27993-79-59	
CP	See also (Synthetic preparation); PREP (Preparation)	
CQ	27993-79-59	
CR	See also (Synthetic preparation); PREP (Preparation)	
CS	27993-79-59	
CT	See also (Synthetic preparation); PREP (Preparation)	
CU	27993-79-59	
CV	See also (Synthetic preparation); PREP (Preparation)	
CW	27993-79-59	
CX	See also (Synthetic preparation); PREP (Preparation)	
CY	27993-79-59	
CZ	See also (Synthetic preparation); PREP (Preparation)	
DA	27993-79-59	
DB	See also (Synthetic preparation); PREP (Preparation)	
DC	27993-79-59	
DD	See also (Synthetic preparation); PREP (Preparation)	
DE	27993-79-59	
DF	See also (Synthetic preparation); PREP (Preparation)	
DG	27993-79-59	
DH	See also (Synthetic preparation); PREP (Preparation)	
DI	27993-79-59	
DJ	See also (Synthetic preparation); PREP (Preparation)	
DK	27993-79-59	
DL	See also (Synthetic preparation); PREP (Preparation)	
DM	27993-79-59	
DN	See also (Synthetic preparation); PREP (Preparation)	
DO	27993-79-59	
DP	See also (Synthetic preparation); PREP (Preparation)	
DQ	27993-79-59	
DR	See also (Synthetic preparation); PREP (Preparation)	
DS	27993-79-59	
DT	See also (Synthetic preparation); PREP (Preparation)	
DU	27993-79-59	
DV	See also (Synthetic preparation); PREP (Preparation)	
DW	27993-79-59	
DX	See also (Synthetic preparation); PREP (Preparation)	
DY	27993-79-59	
DZ	See also (Synthetic preparation); PREP (Preparation)	
EA	27993-79-59	
EB	See also (Synthetic preparation); PREP (Preparation)	
EC	27993-79-59	
ED	See also (Synthetic preparation); PREP (Preparation)	
EE	27993-79-59	
EF	See also (Synthetic preparation); PREP (Preparation)	
EG	27993-79-59	
EH	See also (Synthetic preparation); PREP (Preparation)	
EI</		



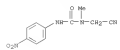
L21 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



HN 4954-37-4 CAPLUS
 CN Urea, 1-(cyanomethyl)-3-[p-(dimethylamino)phenyl]-1-methyl- (6CI, 8CI)
 (CA INDEX NAME)



REG	5594-49-0	CAPLUS	
CN	Urea, N-(cyanomethyl)-N-methyl-N ⁴ -(4-nitrophenyl)-	(CA INDEX NAME)	



[illegible]

121 ANMERK 18 OF 18 CARLUS COPYRIGHT 2008 ACS ON STM (Continued)

ACCESSION NUMBER: 1939;59656 CARLUS

DOCUMENT NUMBER: 1939;59656

ORIGINAL REFERENCE NO.: 31-855676-1, 8568a-1, 8569a-1

TITLE: Characterization of carboxylic acids as urides by means of methanides. IV. A study of β -unsaturated acids

AUTHOR(S): Reiche, Fritz; Muller, Gerhard

SOURCE: Berichte der Deutschen Chemischen Gesellschaft [Hamburg] : 1939, 72, 1359-1312

ISSN: CODEN BCDAJY ISSN: 0363-9888

DOCUMENT TYPE: Unavailable

AS OF: C. A. 23, 3771, 4.

ABSTRACT: The α -aryl- β -N'-bis(4-(dimethylamino)phenyl) urides, $\text{CH}_3\text{N}(\text{CH}_3)_2\text{CH}_2\text{CH}_2\text{N}(\text{CH}_3)_2$, easily formed from carboxylic acids and the "basic" carboxylic acids (C18H19NO2) (7), are colored when a R' is C_6H_5 or C_6H_4 (indol-2-yl), whereas those with an indol-3-yl unit is another than the β -position are colorless. On the other hand, the β -carboxylic acids colored when the uride acid itself is colored, in which case the uride is not more deeply colored. 2-Benzotriazinone acid shows that the color effect, which decreases in intensity from acrylic to the C_1 -acid, persists substantially for the β -alkyl-uride acid series, and the limit of detectability should extend far beyond the C_1 -acid. The color also appears in the α -aryl- β -N'-bis(4-(dimethylamino)phenyl) urides (piperidin, tetrolin). Conjugated $\Delta^1,4$ -diene (ionin, piperin), as also coumarin and furfuraluric acid, now, as compared with β -alkyl-uride acids with non-conjugated double bond (peanic acid and β -alkyl-uride acids, a deepening of the color (to red-orange in coumarin and chromone, and to red in piperidin). Inner complex salt formation has the same effect (the coumarin monoxide is red). The basic urides of α -alkylated β -unsaturated acyclic acids of the type $\text{RCH}_2\text{CH}(\text{CO}_2\text{R})\text{CH}=\text{CH}_2$ show such a slight deepening of color, as compared with those of the acrylic acid, that they are colorless or only faintly colored. This phenomenon is designated the "a-effect," for the corresponding β -disubstitution appears, as shown by comparison with α -alkylated cyclohexylideneacetic acids, to exert no such pronounced effect, although there seems to be some weakening of the color. The uride of $\Delta^1,4$ -dihydrobenzoic acid, which may be considered as an α -alkyl-uride, is colorless. Aromatic carboxylic acids give in part colored, in part colorless, basic urides but it is not surprising that they should show greater diversity than acids of the acyclic series. Nevertheless, introduction of the basic acid residues in benzoic, acetic and piperidine acids has such a color-deepening effect as to give colorless (even if but faint) urides, α - and β -Biphenolic acids, and also α - and β -terephthalic acids, can be readily converted into colored urides (the color of their urides). In the heterocyclic series with an aromatic state of saturation, β -pyridinecarboxylic acid, with its pale yellow uride, falls in with H_2O , while the α -one gives a colorless uride. The color deepening is especially marked in the case of α -carboxylic acids. Hence, direct union of an aromatic system with the carboxyl group in the basic urides has approx. the same effect as an α -ethylene group (thus through aliphatic groups (P20C02C2, 1-pyrenyluric acid, P20C2C2C02C2) or with hydrogenated ring members

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141-27, phenylpropionic, yellow, sinters 149°, n. 151°, 1,3-hexanone, colorless, sinters 144°, n. 146° (ex.) benzaldehyde, yellowish white, n. 150-27, 2-benzo-5,6-dioxo, colorless, n. 150°, allylacetate, colorless, n. 149-9° (int.), methyl-2-oxocyclopentanone, white, n. 16-77, trans-isomer, white, n. 110-111°, α -cyclopentanone, pure white, n. 142-57, methanone, colorless, sinters 115°, n. 116-57, methylacetyl, white, sinters 140°, n. 143-57, mol. in benzene 347, ligulin, colorless, sinters 158°, n. 171°, atropin, yellowish white, n. 134-57, α -methylacetyl, light yellow, sinters 138°, n. 139°, α -phenylacetone, light yellow, sinters 154°, n. 151-57, $\Delta^1,4$ -dihydrobenzoic acid, yellowish white, n. 149-57 (decomp.) benzoic, faintly yellow, n. 138-238°, depending on the rate of heating, at once when placed in a bath preheated to 160°, or slowly, very faintly yellow, 167-57, α -methylacetyl, colorless, n. 151-57, hydromethanone, colorless, n. 155-57, terephthalic, deep yellow, becomes discolored about 180°, darkens 200°, sinters about 240°, decomp. on further heating without melting up to 320° when it is heated a few min. in sec-ethyl oil. The color lightens and thins esp. light yellow needles of terephthalic (4-dimethylamino)phenyl-, decomp. without melting when heated up to 340°, isophthalic, pale yellow, takes to a moist state at 240°, dry at about 350°, n. 165-357 (decomp.) (in a bath preheated to 150° it melts, resolidifies at once and n. 213-317 (decomp.) (in a bath preheated to 150° it converts it into the bisimide) α -methylacetyl, pale yellow, n. 162° (decomp.) β -methylacetyl, yellow, n. 161-357 (170° in a preheated bath) anthracene-2-carboxylic, deep yellow, sinters 171°, n. 180°, 3,5-bisphenoxy deriv., colorless, n. 119-217, diphenylacetic, white, n. 16-57, resolidifies a few degrees higher and again n. 189°, 2,4'-dinitrobenzophenone-3-one, yellow, n. 154-57, β -pyrenylpropionic, green, γ -1-pyrenyluric, yellowish white, n. 151-57, furan-2-carboxylic, colorless, sinters 154°, n. 164°, thiosuccinate- α -carboxylic, yellow-orange, n. 136-177, methoxy-pale yellow, sinters 128°, n. clear 151°, pyridine- α -carboxylic, colorless, sinters 154°, n. 164°, cyanosuccinate, pure white, sinters 253°, n. 261°. Contrary to almost all the other urides, that of phthalic acid is differently sol. in CH_2Cl_2 , and can be used for the prep. of the β - from the α -acid by this means 2 con. samples of isophthalic acid were found to contain 4.4-1.5 μ m.

IT 855180-92-69, Carbamide, N-guanonyl-4,4'-bis(4-dimethylamino)-R1: PREP (Preparation of)

NO 855180-91-6, CARLUS

NO 855180-92-69, Carbamide, N-guanonyl-4,4'-bis(4-dimethylamino)-R1: PREP (Preparation of)

NO 855180-91-6, CARLUS

NO 855180-92-69, Carbamide, N-guanonyl-4,4'-bis(4-dimethylamino)-R1: PREP (Preparation of)

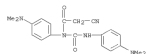
NO 855180-91-6, CARLUS

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(9,10-dihydrothiathene-2-carboxylic acid) does not, any more than an introduction of double bonds in the α -position is able to make carboxylic acids (lincosol, lincosol), sufficient to increase any possible color deepening which may be produced enough to make the color visible. 2. and 3. do not as yet offer any interpretation of the cause of the color of their compounds, for they have encountered similar phenomena in another group of carboxylic acids, and they consider it necessary to include other basic carboxylic acids and carboxylic acids in their study. Moreover, the occurrence of 2 differently colored forms of the uride found with coumarin is apparently not at all an isolated case. Since the color and change in the basic urides not only may be conditioned by a conjugation of β -unsaturated, carboxylic residues and the basic uride group, but may also be brought about by the interplay of other factors, it is not surprising that the introduction of the basic uride residues with its 2 strong anisotropic residues H_2N into powerful chromophores should likewise produce a deepening of the color; thus, the basic uride of the yellow 1- β -pyrenylpropionic acid is green. These facts do not affect the applicability of the new method, by which it is now possible to characterize carboxylic acids in general as their urides and to detect certain structural peculiarities (detection of the proximity of the COOH groups in polyacids) by the formation of subfides, or of β -unsaturated, urides by the formation of colored urides. The urides of the urides described in this paper were generally about 50%. The mother liquors were always worked up by evap. at room temp. in vacuo and recrystallized in the mother liquor. In detail, the m. pt. it should be remembered that the monomers readily dehydrate, into an isopropylidene and acid uride, frequently in the vicinity of the m. p., and as the acrylides generally melt higher than the urides and the isopropylidene are in part liq. at the m. p. and in part very poor solvents for the urides, the melt often resolidifies and melts again at a higher temp., or the uride, at decomp. on slow heating without melting until approx. the m. p. of the acrylide is reached. Urides from I with the following acids:

acrylic, strongly yellow, sinters 141°, n. 141-57, α -acetone, yellow, n. 105° (int.); 2-benzoic, yellow, sinters 137°, n. 139°, 2-oxocyclopentanone, light yellow, sinters 113°, n. 115°, 2-benzotriazinone, light yellow, n. 102-47, cyclohexylideneacetyl, light yellow, sinters 149°, n. 151°, coumarin, orange clumps and short yellow crystals (both found sep. from acetone in yellow squares; the orange form can be obtained only directly from the prep. of the uride in one and only by rapid crystn. from very cooled. sol.; it changes at about 150° into the yellow form, which is prep. in 145°, n. 147°); pyridine, light yellow, n. 126-71, fumaric, red, sinters 164°, n. 168°, changes on short boiling (45-60 °) in a little sec-ethyl alc. into yellow needles, n. around 300°, cinamic, orange, sinters 153°, n. 153-57, furfuraluric, brown-orange, n. 152-4° (exp.) piperidin, bright red, sinters 133°, n. 154° to an orange-yellow liq. resolidifying at 155° and again about 165° to a red liq.; acetylenecarboxylic, deep yellow, sinters 129°, n. 132°, tetrolin, yellow, sinters 139°, n.

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
98.58	794.91

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-14.40	-19.20

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